S/N: 10/706,125 Atty Dkt No. H-50028

Reply to Office Action of April 28, 2006

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in

the application:

1. (original) A method for the temporary anti-corrosive treatment of

a metal surface that consist predominantly of aluminum and/or zinc, said process comprising:

a) placing the surface of the metal in contact with an anti-corrosive

composition comprising 2.0 - $400 \, \text{g/L}$ phosphate ions, 0.5 - $400 \, \text{g/L}$ fluorometallate ions, and

having a pH of between 1.0 - 4.0, for a time period of between 0.1 - 200 seconds;

b) drying the anti-corrosive treatment composition on the metal surface to

form a primary passivating coating on the metal surface;

c) removing the primary passivating coating from the metal surface; and

d) conversion coating the metal surface.

2. (original) The method of claim 1 wherein the ratio of

fluorometallate anions and phosphate ions is 0.10:1.0 to 5.0:1.0.

3. (original) The method of claim 1 wherein the phosphate ions are

provided in a 75% by weight phosphate solution, based on the total weight of the phosphate

solution, and the fluorometallate ions are provided in a 50% by weight fluorometallate

solution, based on the total weight of the fluorometallate solution.

4. (original) The method of claim 3 wherein the phosphate solution is

present in the composition in an amount of 25 - 65 wt. % and the fluorometallate solution is

present in the composition in an amount of 35 - 75 wt. %, based on the total weight of the

composition.

5. (original) The method of claim 4 further comprising water present

in an amount of 2 to 50 wt. %, based on the total weight of the composition.

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6. (original) The method of claim 3 wherein the phosphate solution

comprises phosphoric acid and the fluorometallate solution comprises hexafluorotitanic acid.

7. (original) The method of claim 6 wherein the phosphoric acid is

present in the composition in an amount of 1.0-15.0 wt. %, based on the total weight of the

composition, and the hexafluorotitanic acid is present in an amount of 1.0-20.0 wt. %, based

on the total weight of the composition, and the composition further comprising water present

in an amount of 45-98 wt. %, based on the total weight of the composition.

8. (original) The method of claim 1 wherein the metal surface

comprises steel treated with a galvanic coating comprising aluminum, zinc and silicon.

9. (original) The method of claim 1 wherein the metal surface

comprises steel treated with a galvanic coating comprising 55% aluminum, 43.5% zinc and

1.5% silicon.

10. (canceled)

11. (currently amended) The method of claim 1 wherein the primary

passivating coating method metal surface is stored after step b) and prior to step c).

12. (currently amended) The method of claim 1 wherein the removal of step

c) takes place by exposing the primary passivating coating to an alkaline solution prior to step

<u>d</u>).

13.-21. (canceled)

22. (new) A method for the temporary anti-corrosive treatment of metal

surface that consist predominately of aluminum and/or zinc, said method comprising:

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a) placing the surface of the metal in contact with an anti-corrosive composition comprising 2.0-400 g/L phosphate ions, 0.5-400 g/L fluorometallate ions selected from the group consisting of TiF₆⁻², ZrF₆⁻², HfF₆⁻², SiF₆⁻², AlF₆⁻³, GeF₆⁻², SnF₆⁻², and BF₄⁻, and having

a pH of between 1.0-4.0, for a time period of between 0.1-200 seconds;

b) drying the anti-corrosive treatment composition on the metal surface to form a primary passivating coating on the metal surface;

- c) removing the primary passivating coating from the metal surface; and
- d) conversion coating the metal surface.
- 23. (new) The method of 22 wherein the anti-corrosive composition consists essentially of phosphate ions, fluorometallate ions and water.
- 24. (new) The method of claim 22 wherein the fluorometallate ions are selected from the group consisting of TiF_6^{-2} and ZrF_6^{-2} .
- 25. (new) The method of claim 24 wherein the anti-corrosive composition further comprises 0.1-150 g/L amino-phenolic polymer and consists essentially of phosphate ions, fluorometallate ions, amino-phenolic polymer and water.
- 26. (new) The method of claim 25 wherein the amino-phenolic polymer is provided as a solution with an acid selected from the group consisting of fluorotitanic acid, phosphoric acid, and fluorozirconic acid and the ratio of the amino-phenolic polymer and the acid is 1.0:1.0 to 50:1.0.
- 27. (new) A method for the temporary anti-corrosive treatment of metal surface that consist predominately of aluminum and/or zinc, said method comprising:
- a) placing the surface of the metal in contact with an anti-corrosive composition comprising 2.0-400 g/L phosphate ions, 6.0-400 g/L fluorometallate ions, and having a pH of between 1.0-4.0 for a predetermined period of time;

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b) drying the anti-corrosive treatment composition on the metal surface to form a primary passivating coating on the metal surface;

- c) removing the primary passivating coating from the metal surface; and
- d) conversion coating the metal surface, after the primary passivating coating has been removed from the metal surface.
- 28. (new) The method of claim 27 wherein the surface of the metal is in contact with the anti-corrosive composition for a time period of between 0.1-2.0 seconds.
- 29. (new) The method of claim 28 wherein the anti-corrosive composition further comprises 0.1-150 g/L amino-phenolic polymer.
- 30. (new) The method of claim 28 wherein the temperature of the anticorrosive composition during step a) is 20-66°C.